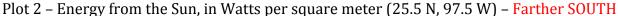
NAME:	DATE:	CLASS:	
MY NAS	SA DATA: Think Green – Utiliz	ing Renewable Solar Energy	
http:/	//mynasadata.larc.nasa.gov/?	page_id=474?&passid=36	
Use the following 2 s	ets of data to create plots and	to answer questions 1 and 2.	
Dataset 1 – Energy fr	om the Sun (clear Sky), in Wa	tts per square meter (35.5 N, 97.	5 W)
JUL-2003: 325.900	0111 0110 0 0111 (01001 0119), 111 110	tee per equare more (eere m,).	· ,
AUG-2003: 291.500			
SEP-2003: 264.400			
OCT-2003: 205.200			
NOV-2003: 162.900			
DEC-2003: 137.400			
JAN-2004: 152.200			
FEB-2004: 202.500			
MAR-2004: 247.900			
APR-2004: 304.700			
MAY-2004: 329.500			
JUN-2004: 325.700			
Dataset 2 - Fnerov fr	om the Sun (with clouds) in I	Watts per square meter (35.5 N, 9	27 5 W)
JUL-2003: 304.200	om the sun (with clouds), in v	watts per square meter (55.5 N, 2	//.J v vj
AUG-2003: 241.800			
SEP-2003: 195.100			
OCT-2003: 158.500			
NOV-2003: 102.600			
DEC-2003: 106.900			
JAN-2004: 110.300			
FEB-2004: 135.300			
MAR-2004: 186.700			
APR-2004: 220.800			
MAY-2004: 272.500			
JUN-2004: 242.000			
Questions:			
1 What is the av	vorago colar onorgy this area	rocoives in a given time (with and	ı
 What is the av without cloud 		receives in a given time (with and	l

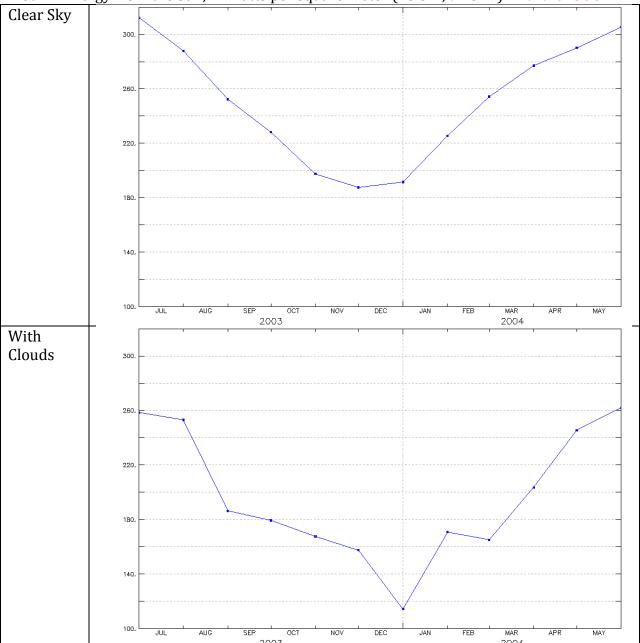
2. Do you think it would be cost efficient to build or buy a solar collector in this location? Why or why not?

NAME:	DATE:	CLASS:
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1 11 11 1 L	D111 D.	GIII 100.

MY NASA DATA: Think Green – Utilizing Renewable Solar Energy http://mynasadata.larc.nasa.gov/?page_id=474?&passid=36

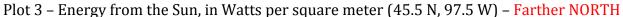
The plots you made on page 1 should look something like the ones below and on the next page. Use these plots along with the ones you made from the data on page 1 to answer questions 3-7 at the end of this packet.

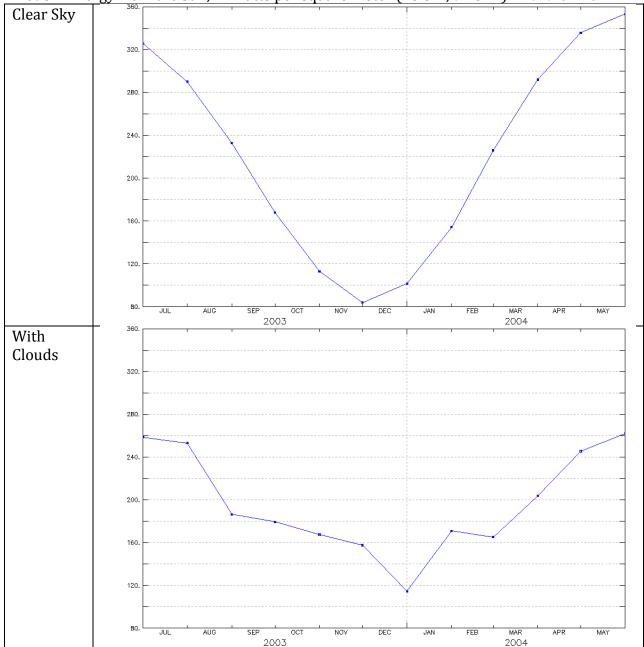




NAME:_	DATE	::	CLASS:_		

MY NASA DATA: Think Green – Utilizing Renewable Solar Energy http://mynasadata.larc.nasa.gov/?page_id=474?&passid=36





3. What is the relationship between the seasons (winter, spring, summer and fall, or wet – dry, depending on location) and the amount of solar energy that a particular place receives?

NA	ME:	_ DATE:	CLASS:
		•	g Renewable Solar Energy age_id=474?&passid=36
4.	Describe how latitude affects	solar energy ava	ailability.
5.	How would cloud coverage af receive?	fect the amount	of solar energy an area would
6.			cloud cover in a given area would be
	important when deciding who	ther or not to u	se solar energy as a power source.
7.	How does latitude affect the a	mount of energy	y that reaches the Earth's surface?